

BI-LAMINAR, HYALURONAN COATINGS
WITH SILVER-BASED ANTI-MICROBIAL PROPERTIES

ABSTRACT OF THE DISCLOSURE

An article including a surface having a coating thereon, in which the coating includes a base coat, firmly adhered to the surface, and a hydrophilic, biocompatible top-coat. An antibiotic ceramic component is dispersed in one or both of the base coat and top-coat. Preferably, the ceramic component is dispersed in the base coat. In a preferred embodiment, the ceramic component is a zeolite with silver ions exchanged onto internal acidic sites of the zeolite, and the top-coat includes a polysaccharide, such as hyaluronan. The zeolite is highly effective in imparting anti-microbial character to the coating.

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